Navajo Abandoned Uranium Mine

Site Screen Report

This form is for use at the site of abandoned uranium mines (AUM) located on Navajo Nation lands. Applicable sites include all mine and mine features that have or have not undergone reclamation by the Navajo Abandoned Mine Lands Reclamation Program, including features, adits, pits and waste piles. Applicable sites also include all AUM sites listed in the USEPA CERCLIS database, all sites listed in the 2008 AUM GIS Report issued by USACOE and USEPA, all AUM sites on allotment lands associated with the Navajo Nation, and any and all AUM sites not listed in any database located on Navajo lands. Reconnaissance of any sites located on lands adjacent to Navajo lands that may be impacting Navajo lands will need to be coordinated with the authorities appropriate to those lands.

The purpose of the form is to ascertain the status and location of the identified AUM site, and record all immediate site information associated with the mine site. Decisions and recommendations on what additional steps are needed will be provided on a separate document.

Mine Name: **Max Johnson No. 10**Mine ID: **128**

Navajo AUM Western Region

Prepared by:

Weston Solutions, Inc.

Contract: W91238-06-F-0083

20074.063.017.0020

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Part I	Site Identification, Location and Status					
Site Names and ID numbers as applicable						
Mine ID:	128					
Map ID:	W42					
CERCLIS:	NNN0009092	14				
Navajo Abano	doned Mine L	and Reclamati	on Program: NA	-0130		
Local name /	Aliases: Max	Johnson #10				
Chapter and l	local area: Co	almine Mesa				
County: Coco	onino	State: Arizon	a			
Lat/Long:	35.879881740	1 N / -111.3733	325467 W			
Nearby road a	and highway:	Indian Route 6	5730 Local Post	Office: Cameron, AZ		
Surface Land below	Status: check	one or more a	and provide owner	ship and contact informa	tion	
Tribal Trust l Private Bureau of La State			Public lands Tribal Fee Land Allotment Fee land			
Subsurface M	lineral Rights:					
No information	n on subsurface	e mineral rights	ownership was fou	and in the EPA/AUM Data	base.	
Claim and operator information:						

The mine surface land status is classified as Tribal Trust Land. Historical documents identified the operator of the mine as Louis W. Cramer from 1959 to 1960. No additional historical ownership / lease information was identified in the EPA / AUM database.

Number of residential structures within 200 feet of mine: None

Part II Summary of Radiological Readings

Mine ID: 128

Highest gamma radiation measurement: 166,869 counts per minute (cpm)

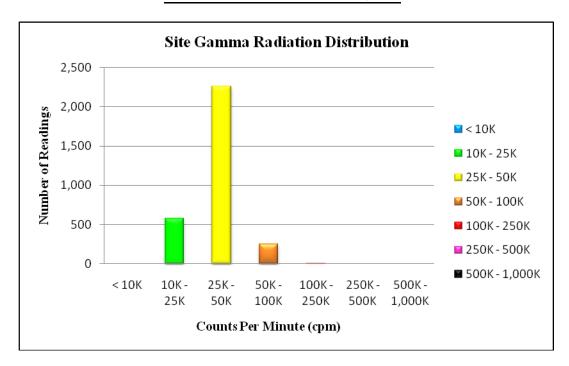
Background Average: 15,061cpm **Two Times Background:** 30,122 cpm

Describe any other radiological measurements:

A total of 3,100 gamma radiation measurements were collected from the mine site, ranging from 16,328 cpm to 166,869 cpm. Measurements collected in the vicinity of the reclamation area were found at a maximum level of approximately 165,000 cpm. The measurements are represented in Figures 1 and 2.

Distribution Chart and Statistics:

Site Gamma Radiation Statistics				
Number of Readings	3,100			
Minimum (cpm)	16,328			
Maximum (cpm)	166,869			
Mean (cpm)	34,128			
Median (cpm)	31,088			
Standard Deviation	12,334			



Part III Status of Reclamation and Mine Waste

Mine ID: 128

The following information was obtained from the Navajo Abandoned Mine Land Reclamation Program (NAMLRP) Point Features Database:

NAMLRP Status of the mine site: Reclaimed: Yes Waste Pile onsite: No

NAMLRP Project Number: NA-0130

NAMLRP Mine features: 1 Rim Strip / Pit

The following information was obtained from field observations collected during the 2011 site screening:

Provide description and status of all mine sites and features at site. Include all waste piles, adits, pits and other features, and indicate whether they are open, closed, covered, capped, buried or unreclaimed. Indicate approximate size, shape and extent, including description of any reclamation caps. Note condition of all caps.

Observed reclamation work and status:

Adits:

None observed

Waste Piles:

None observed

Pits:

None observed

Shafts:

None observed

Other Debris and Mine Features:

Reclamation cap in western portion of site, 250'x350'x10' oval, fine red-gray soil, no erosion control; some metal debris

Part IV Site Observations and Environs

Observed Residential Structures (number and human habitation status of structures at the following distances from the mine site):

0 to 200 feet: None observed

200 feet to 0.25 mile: None observed

Observed Public or Commercial Structures (schools, clinics, Chapter Houses, places of business and any other structures used by members of the community at the following distances from the mine site):

0 to 200 feet: None observed

200 feet to 0.25 mile: None observed

Levels measured around the perimeter(s) of the identified structure(s):

None

Observed Water Sources (number and type of wells and surface water sources that are potentially used for human consumption at the following distances from the mine site):

0 to 0.25 miles: None observed

0.25 miles to 4 miles: Little Colorado River approximately 0.5 mi SW of site

Sensitive Environments (all sensitive environments located within visible range of the mine site, including: wetlands, endangered species, habitats and approximate locations of sites that may be under protection of the government of the Navajo Nation):

None observed

Known Site History (information from interviews with Chapter officials and residents and database review, includes: mine ownership, type of mining operation, period of operation, known amount of production, and any other information provided):

The Max Johnson No. 10 mine claim consists of an area of 68,180.68 m². The mine was identified as being operational from 1959 to 1960. While operational, the mine had a total reported production volume of 196 tons. The mine surface land status is classified as Tribal Trust Land. Historical documents identified the operator of the mine as Louis W. Cramer from 1959 to 1960. No additional historical ownership / lease information was identified in the EPA / AUM database.

Part V Response Action Summary

Summary of Evaluation Factors:

Accessibility:

Was the mine easily accessible to potential human activity?

Yes

Radiological Measurements:

Were any gamma radiation measurements collected at the mine greater than two times the site-specific background levels?

Yes

Waste Piles:

Were any unreclaimed waste piles observed at the mine with gamma radiation measurements greater than two times the site-specific background levels? No

Structures:

Were any structures observed within 200 feet of the mine?

No

Potential Drinking Water Sources:

Were any potential drinking water sources observed within 4 miles of the mine? Yes

Reclamation:

Was the mine reported to be previously reclaimed, or did the mine appear to be reclaimed?

Yes

Part VI Photos



Photo 1: Mine Site #128



Photo 2: Mine Site #128; Reclamation area

Part VII Contacts Reports and Information

Name:	Eugene Esplain		
Title or official role (if any):	Navajo EPA Superfund Program		
Telephone number:	(928) 871-7331		
Address:	PO Box 2946, Window Rock, AZ 86515		
Information provided:	Lead Regulatory Agency		
A.Y.			
Name:			
Title or official role (if any):			
Telephone number:			
Address:			
Information provided:			
Name:			
Title or official role (if any):			
Telephone number:			
Address:			
Information provided:			

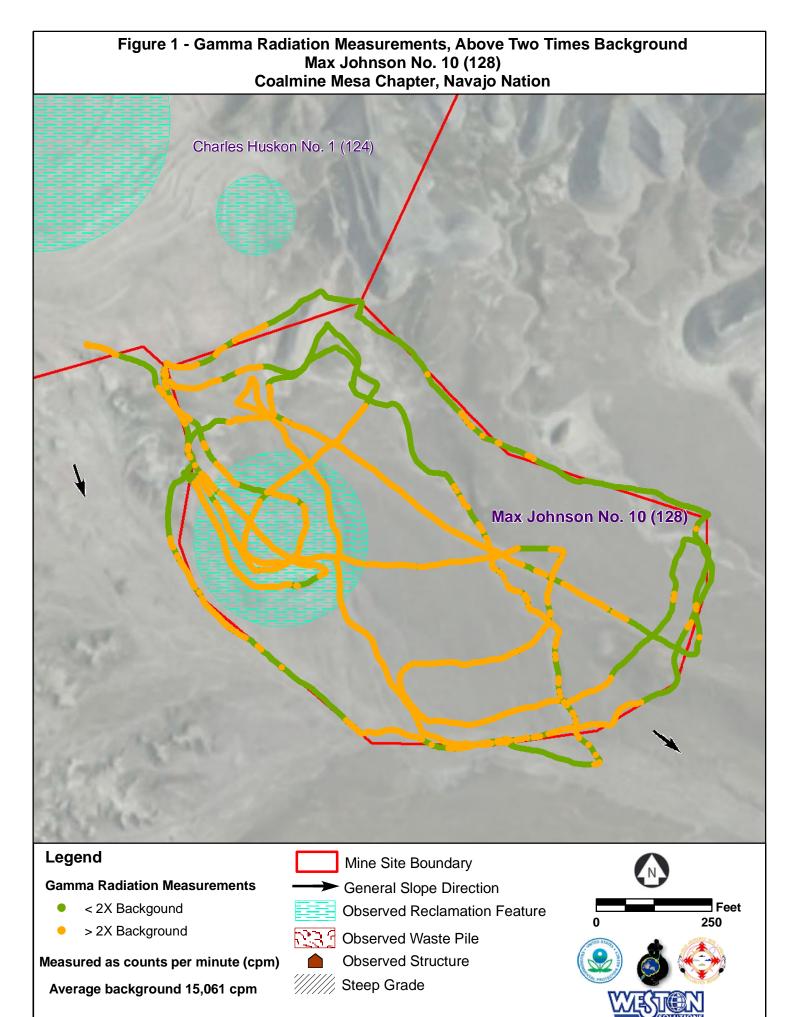
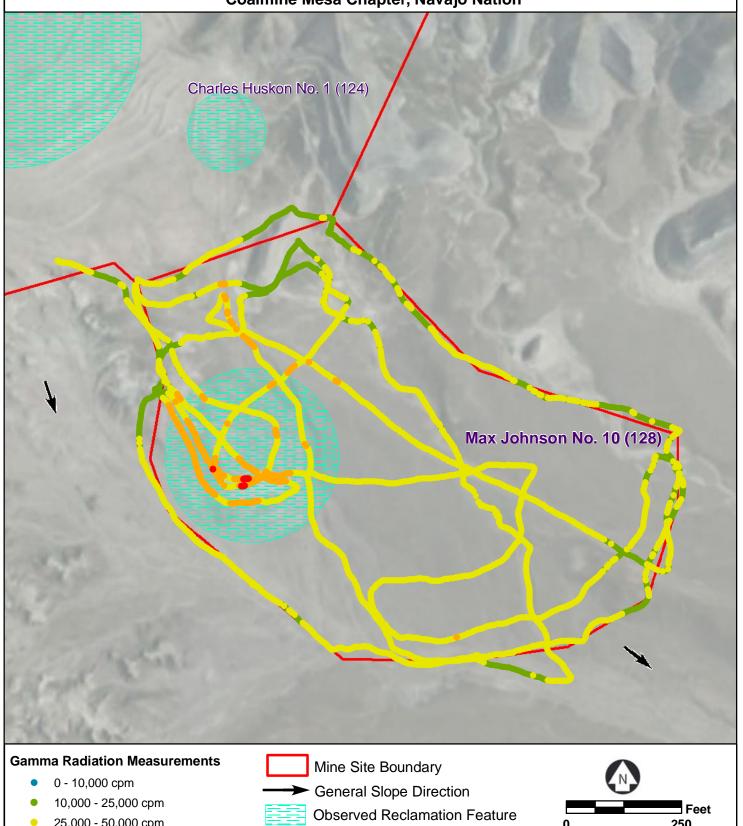
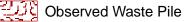


Figure 2 - Gamma Radiation Measurements Max Johnson No. 10 (128) **Coalmine Mesa Chapter, Navajo Nation**



- 25,000 50,000 cpm
- 50,000 100,000 cpm
- 100,000 250,000 cpm
- 250,000 500,000 cpm
- 500,000 1,000,000 cpm



Observed Structure



